

## CLAIMS

What is claimed is:

1. A system for managing the transmission of data, comprising:  
  
an input interface to receive a plurality of message objects generated from data from at least one data source;  
  
a transport interface to a transport layer; and  
  
a communication engine, communicating with the input interface and the transport interface, the communication engine buffering the message objects for transmission to the remote destination via the transport layer.
2. A system according to claim 1, wherein the at least one data source comprises a network.
3. A system according to claim 2, wherein the network comprises at least one server.
4. A system according to claim 3, wherein the network comprises a local area network.
5. A system according to claim 1, wherein the transport layer comprises a Transport Control Protocol layer.
6. A system according to claim 1, wherein the remote destination comprises a storage host.
7. A system according to claim 1, wherein the communication engine queues the message objects in at least one output buffer.
8. A system according to claim 1, wherein the at least one data source comprises a plurality of data sources.

9. A system according to claim 8, wherein each of the data sources is associated with at least one corresponding session.
10. A system according to claim 9, wherein the communication engine binds at least one session to at least one of a plurality of connections to the remote destination.
11. A system according to claim 10, wherein the communication engine binds more than one session to at least one of the connections to the remote destination.
12. A system according to claim 1, wherein the buffering of the message objects is performed at least in part according to a state of a message completion port.
13. A method for managing the transmission of data, comprising:
  - receiving data from at least one data source;
  - transforming the data to a plurality of message objects; and
  - buffering the message objects for transmission to a remote destination via a transport layer.
14. A method according to claim 13, wherein the at least one data source comprises a network.
15. A method according to claim 14, wherein the network comprises at least one server.
16. A method according to claim 15, wherein the network comprises a local area network.
17. A method according to claim 13, wherein the transport layer comprises a Transport Control Protocol layer.

18. A method according to claim 13, wherein the remote destination comprises a storage host.
19. A method according to claim 13, wherein the step of buffering the message objects comprises a step of queuing the message objects in at least one output buffer.
20. A method according to claim 13, wherein the at least one data source comprises a plurality of data sources.
21. A method according to claim 20, wherein each of the data sources is associated with at least one corresponding session.
22. A method according to claim 21, further comprising a step of binding at least one session to at least one of a plurality of connections to the remote destination.
23. A method according to claim 22, wherein the step of binding comprises a step of binding more than one session to at least one of the connections to the remote destination.
24. A method according to claim 13, wherein the step of buffering the message objects is performed at least in part according to a state of a message completion port.
25. A database, the database receiving data via a method comprising:
  - receiving data from at least one data source;
  - transforming the data to a plurality of message objects; and
  - buffering the message objects for transmission to the database via a transport layer.
26. A database according to claim 25, wherein the at least one data source comprises a network.

27. A database according to claim 26, wherein the network comprises at least one server.
28. A database according to claim 27, wherein the network comprises a local area network.
29. A database according to claim 25, wherein the transport layer comprises a Transport Control Protocol layer.
30. A database according to claim 25, wherein the database comprises a storage host.
31. A database according to claim 25, wherein the step of buffering the message objects comprises a step of queuing the message objects in at least one output buffer.
32. A database according to claim 25, wherein the at least one data source comprises a plurality of data sources.
33. A database according to claim 33, wherein each of the data sources is associated with at least one corresponding session.
34. A database according to claim 33, wherein the method further comprises a step of binding at least one session to at least one of a plurality of connections to the remote destination.
35. A database according to claim 34, wherein the step of binding comprises a step of binding more than one session to at least one of the connections to the remote destination.
36. A database according to claim 25, wherein the step of buffering the message objects is performed at least in part according to a state of a message completion port.

37. A message object, the message object being generated according to a method of:  
receiving data from at least one data source; and  
transforming the data to a plurality of message objects in a communication engine; and  
buffering at least one of the message objects for transmission to a remote destination via a transport layer.
38. A message object according to claim 37, wherein the at least one data source comprises a network.
39. A message object according to claim 38, wherein the network comprises at least one server.
40. A message object according to claim 39, wherein the network comprises a local area network.
41. A message object according to claim 37, wherein the transport layer comprises a Transport Control Protocol layer.
42. A message object according to claim 37, wherein the remote destination comprises a storage host.
43. A message object according to claim 37, wherein the step of buffering the at least one message object comprises a step of queuing the at least one message object in at least one output buffer.
44. A message object according to claim 37, wherein the at least one data source comprises a plurality of data sources.

45. A message object according to claim 44, wherein each of the data sources is associated with at least one corresponding session.

46. A message object according to claim 45, wherein the method further comprises a step of binding at least one session to at least one of a plurality of connections to the remote destination.

47. A message object according to claim 46, wherein the step of binding comprises a step of binding more than one session to at least one of the connections to the remote destination.

48. A message object according to claim 37, wherein the step of buffering the at least one message object is performed at least in part according to a state of a message completion port.